

**METHOD AND SYSTEM FOR DESKEWING  
 PARALLEL BUS CHANNELS TO INCREASE  
 DATA TRANSFER RATES**  
 Inventors: Ejaz Ul Haq, et al.  
 Serial No.: 10/086,594

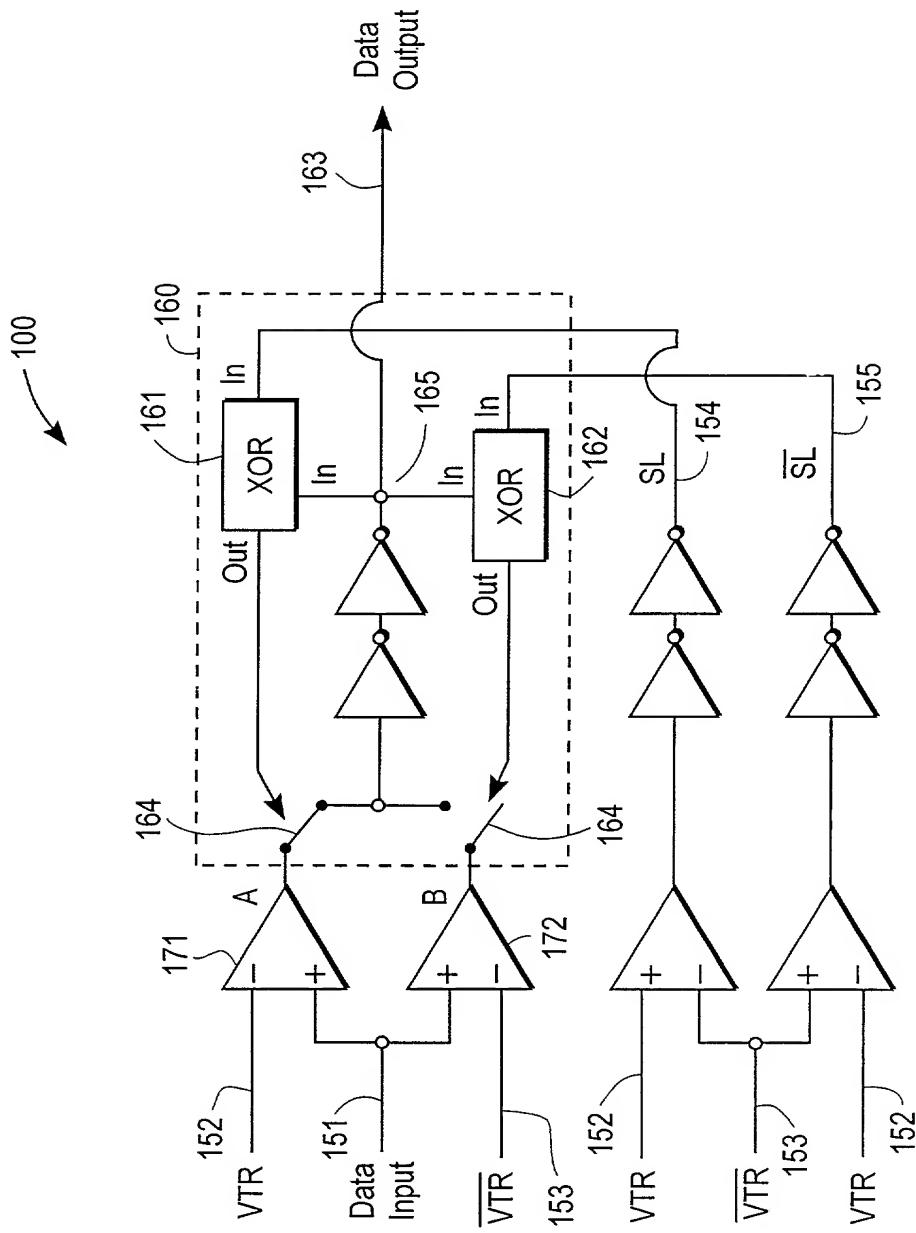


FIG. 1A

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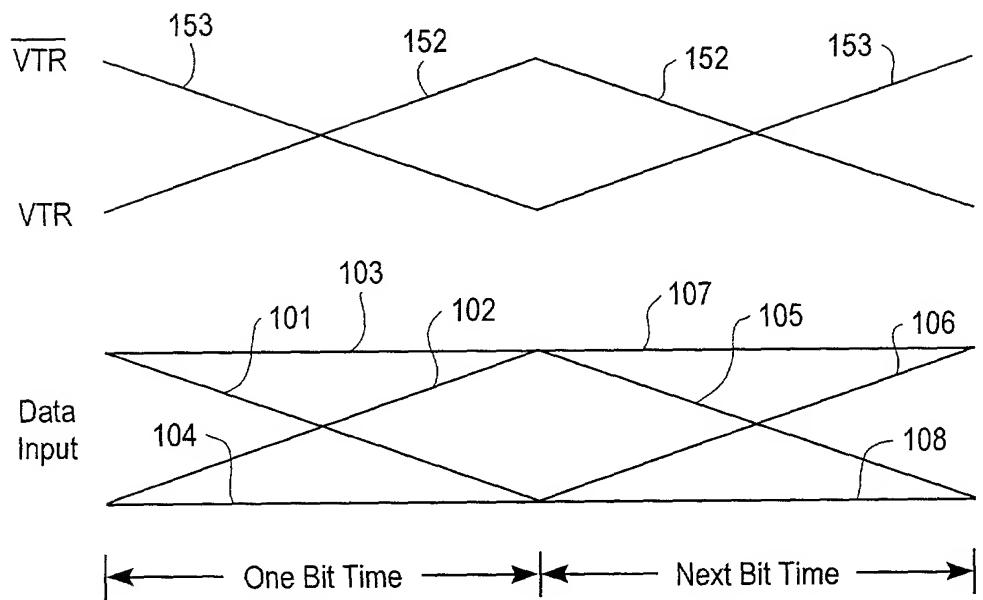


FIG. 1B

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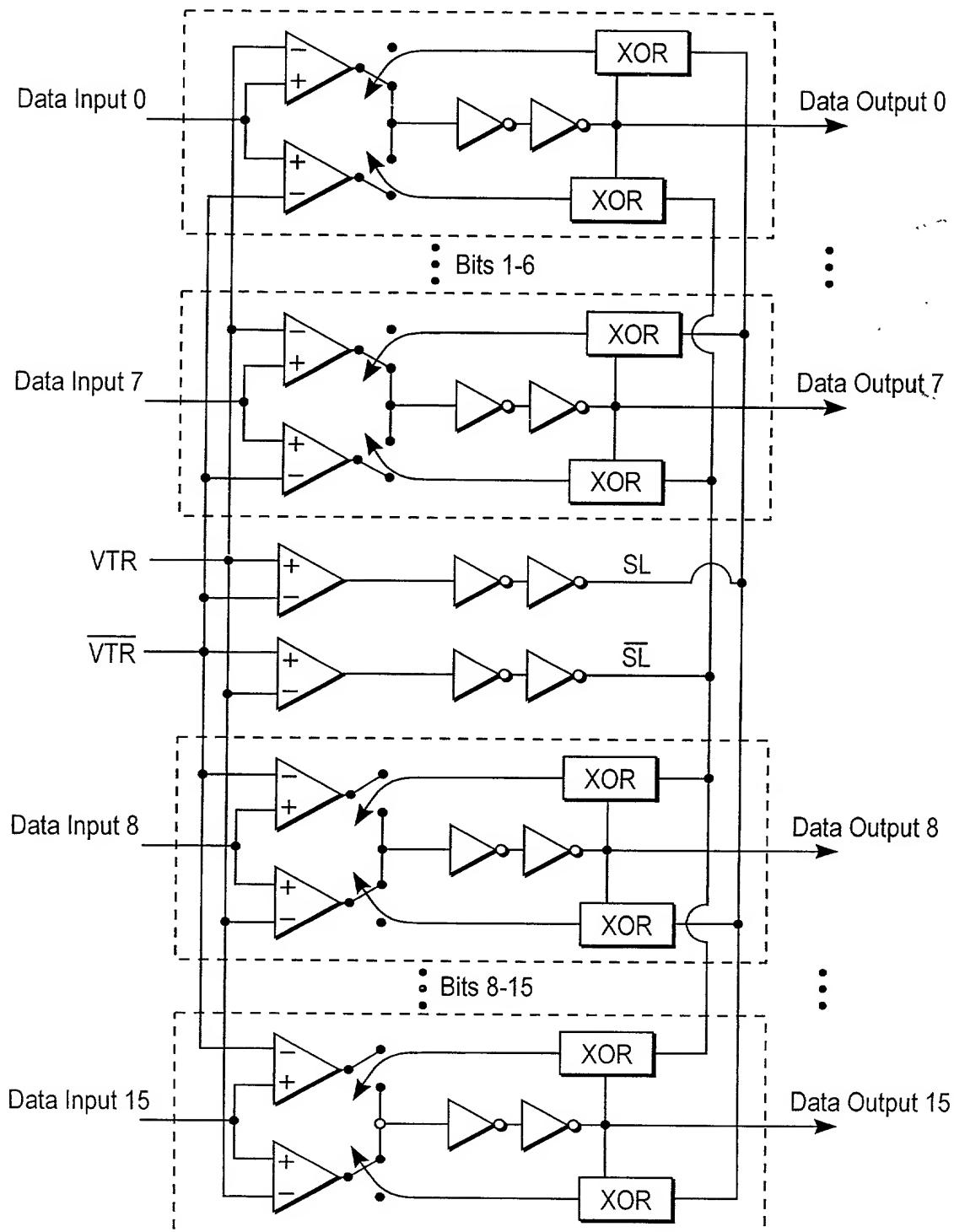


FIG. 2

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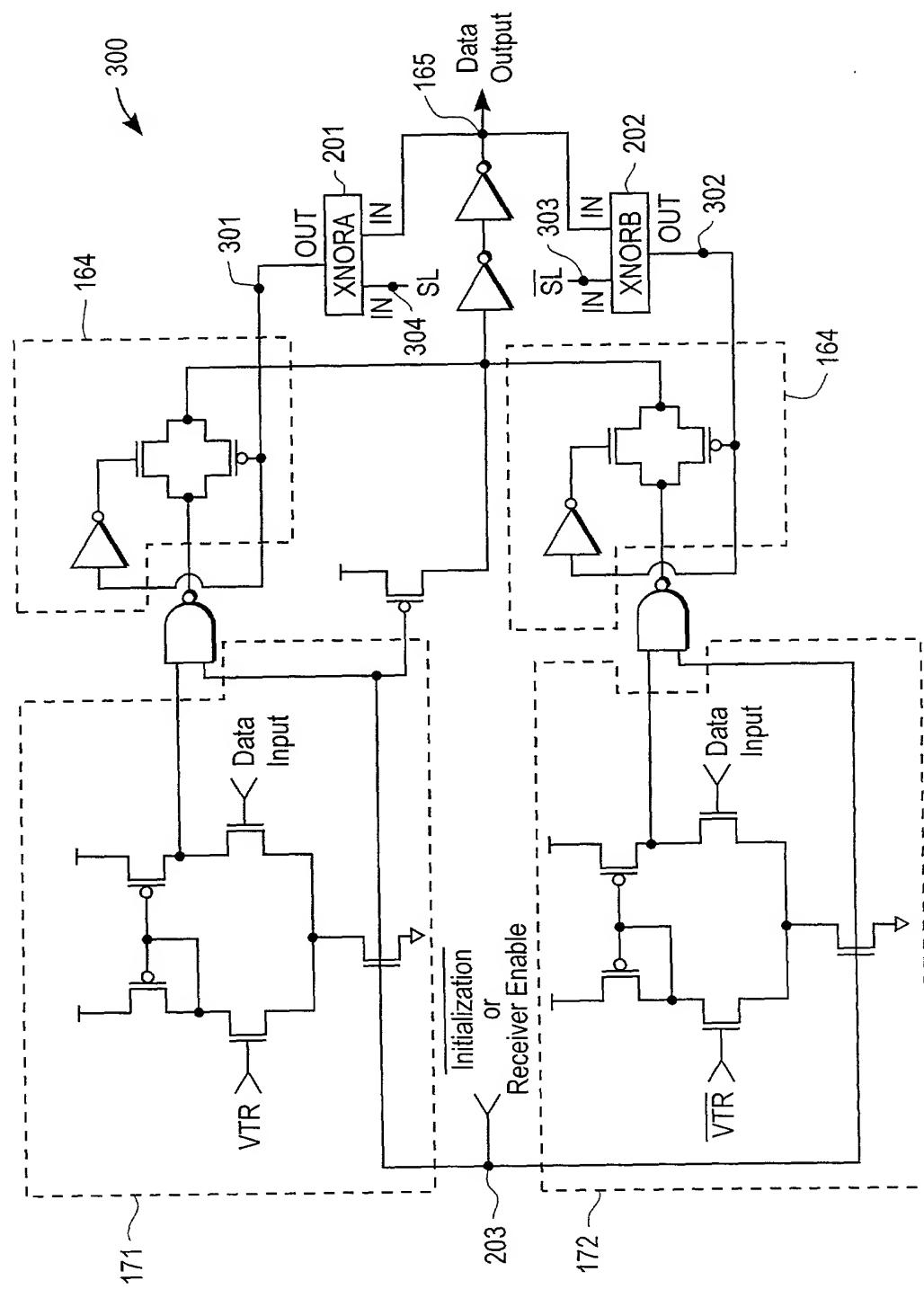
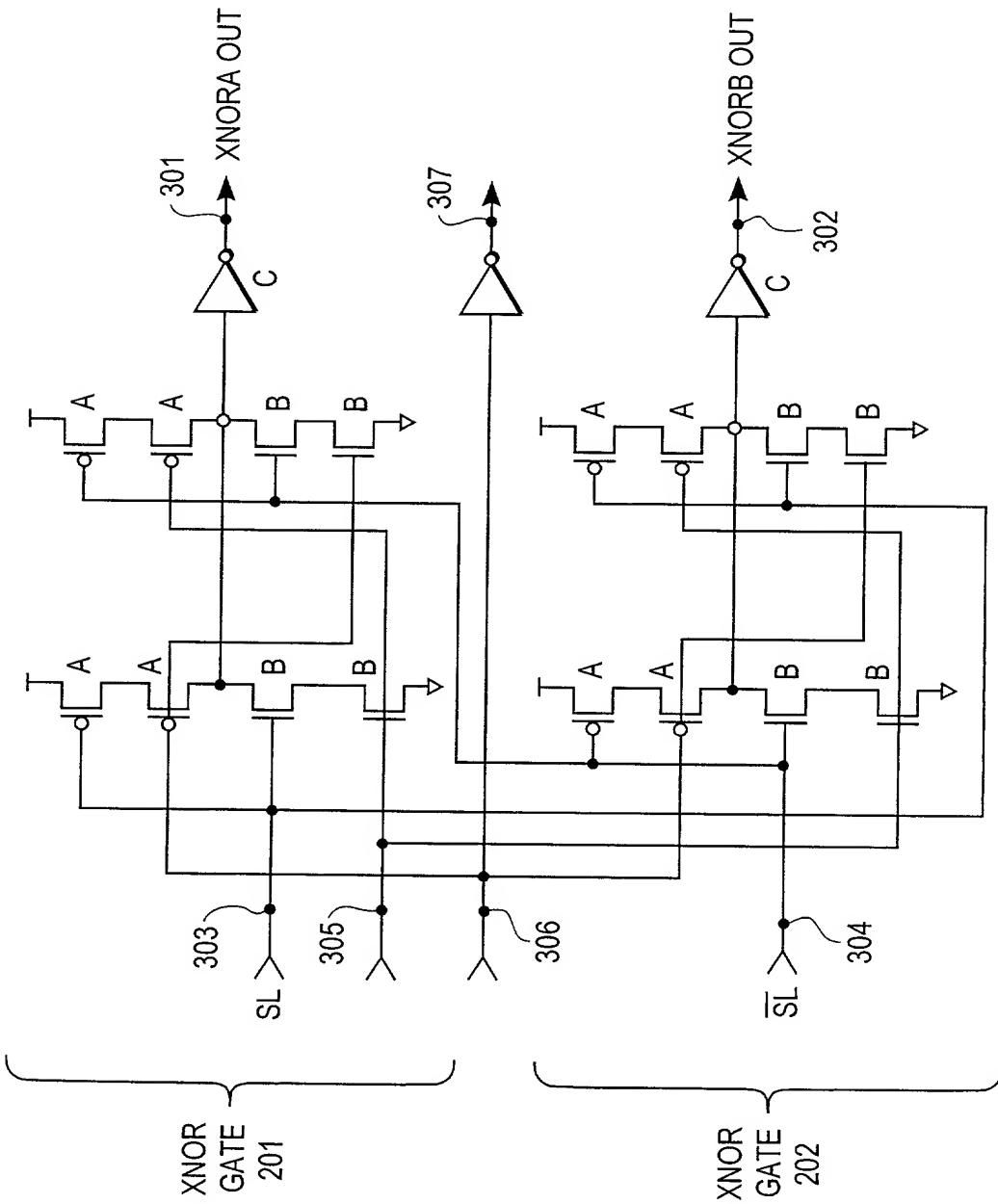


FIG. 3

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**FIG. 4**

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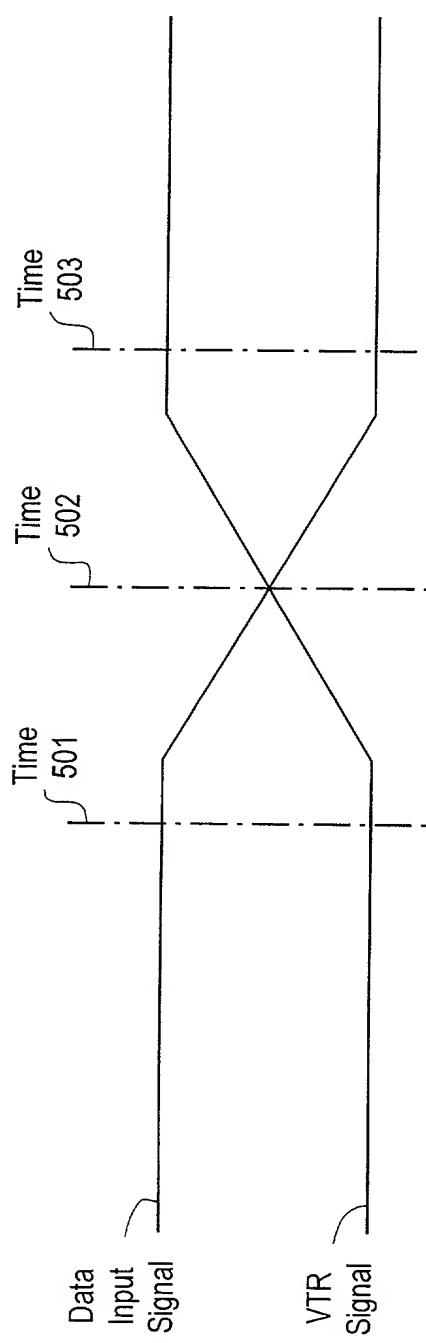


FIG. 5A

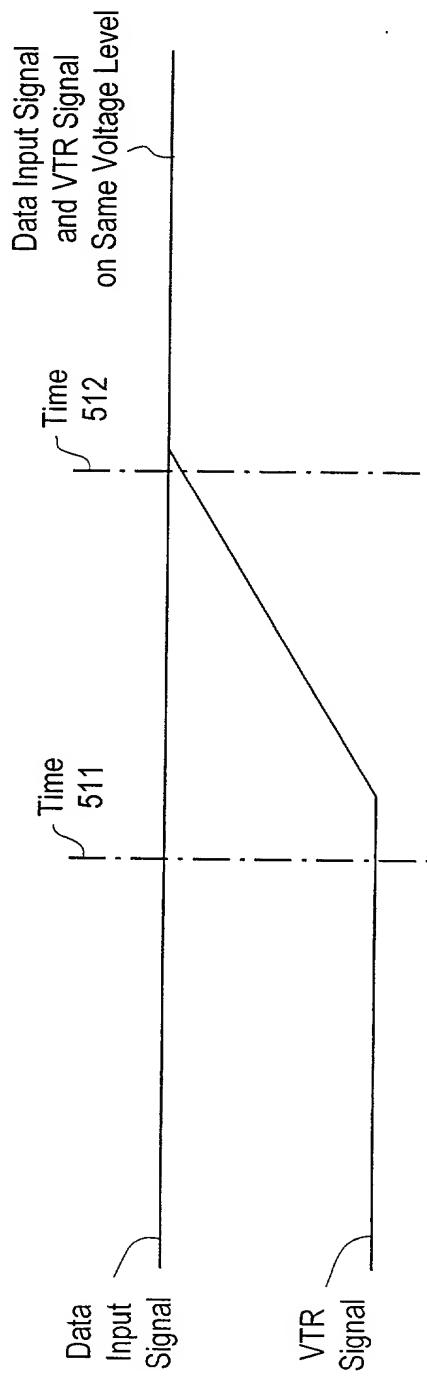
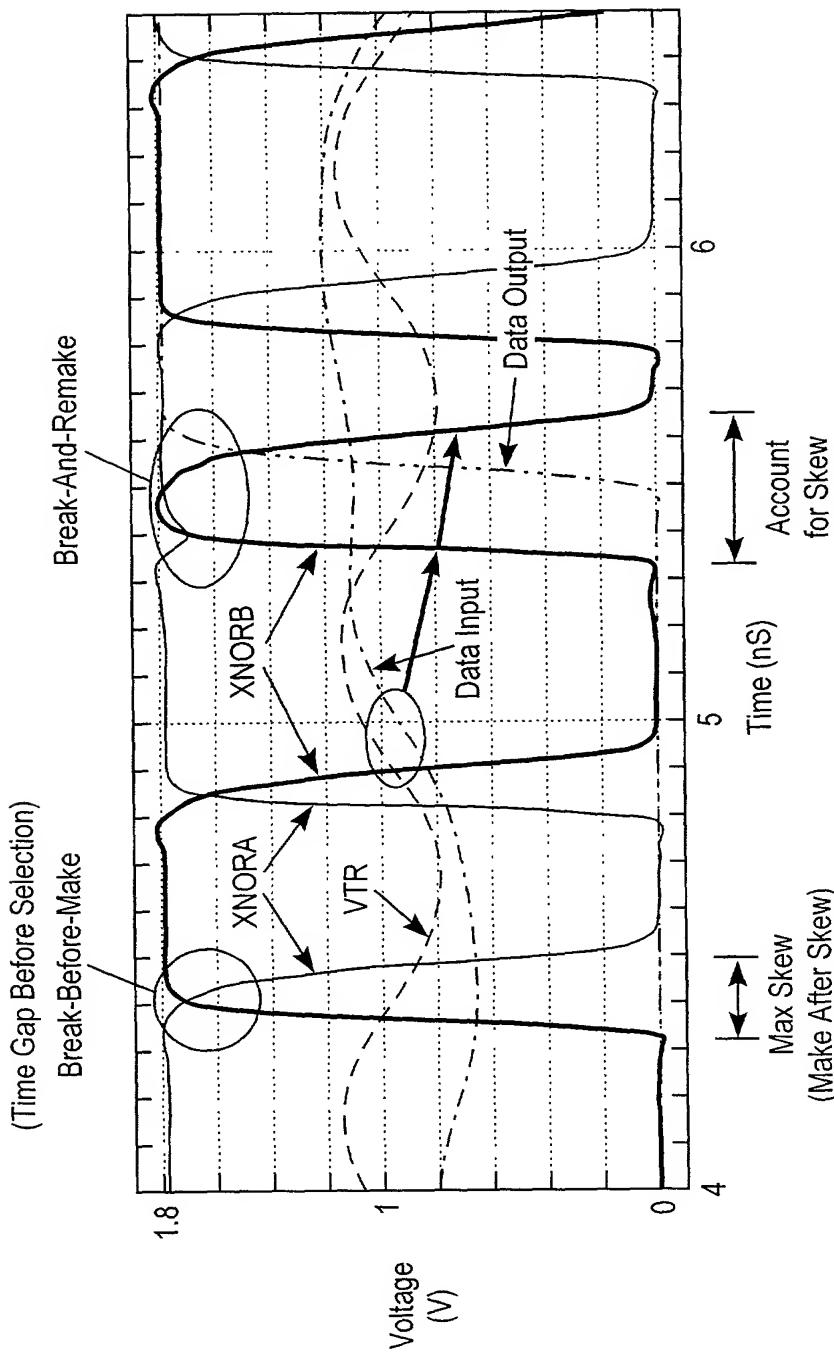


FIG. 5B

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(Replacing XOR with XNOR)

FIG. 5C

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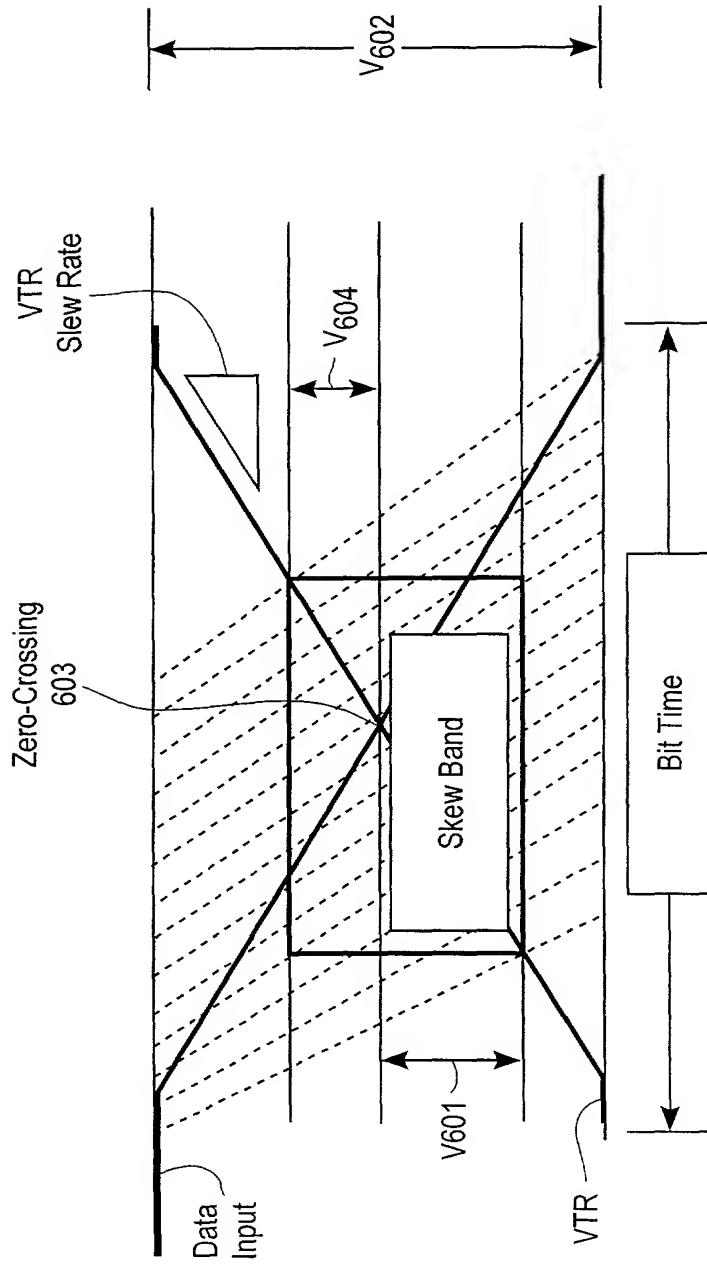


FIG. 6

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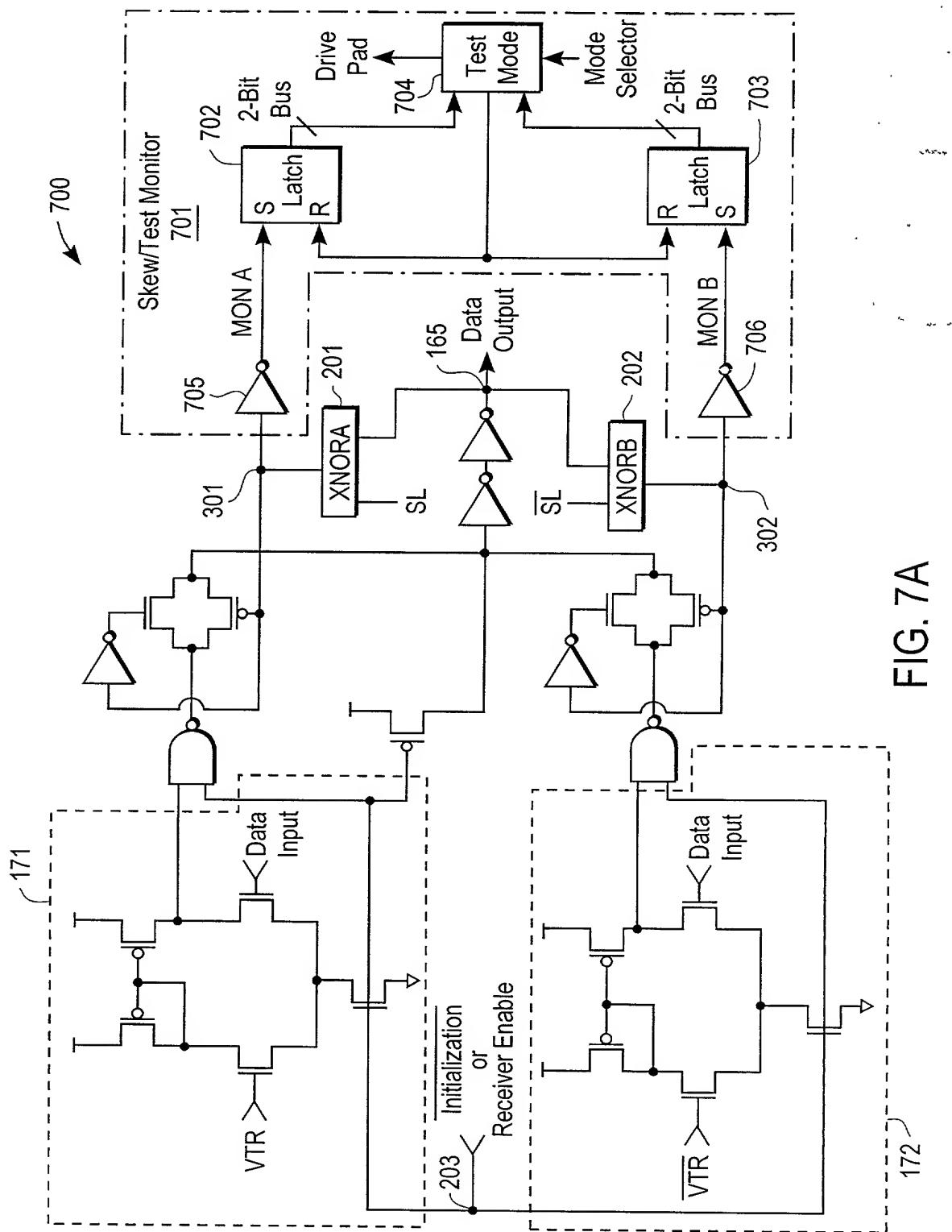


FIG. 7A

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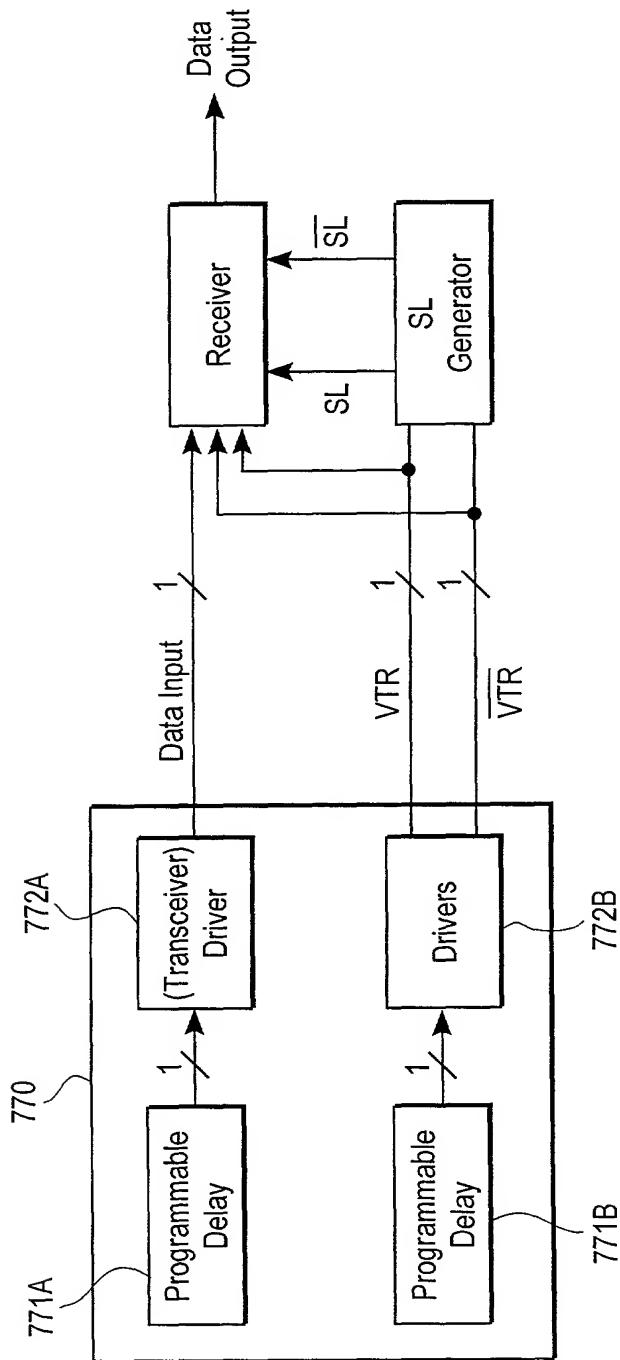
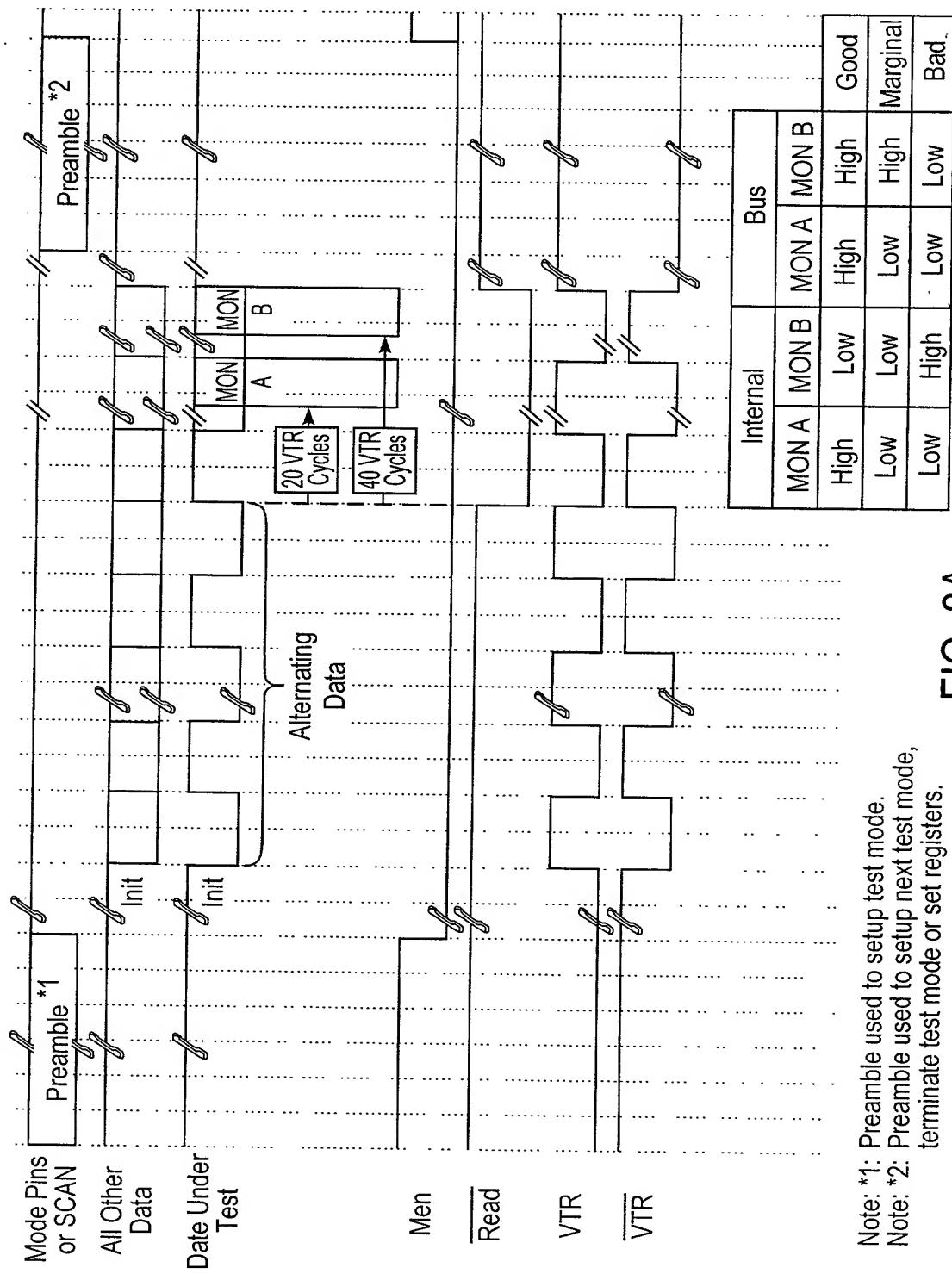


FIG. 7B

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Note: \*1: Preamble used to setup test mode.  
 Note: \*2: Preamble used to setup next test mode, terminate test mode or set registers.

**FIG. 8A**

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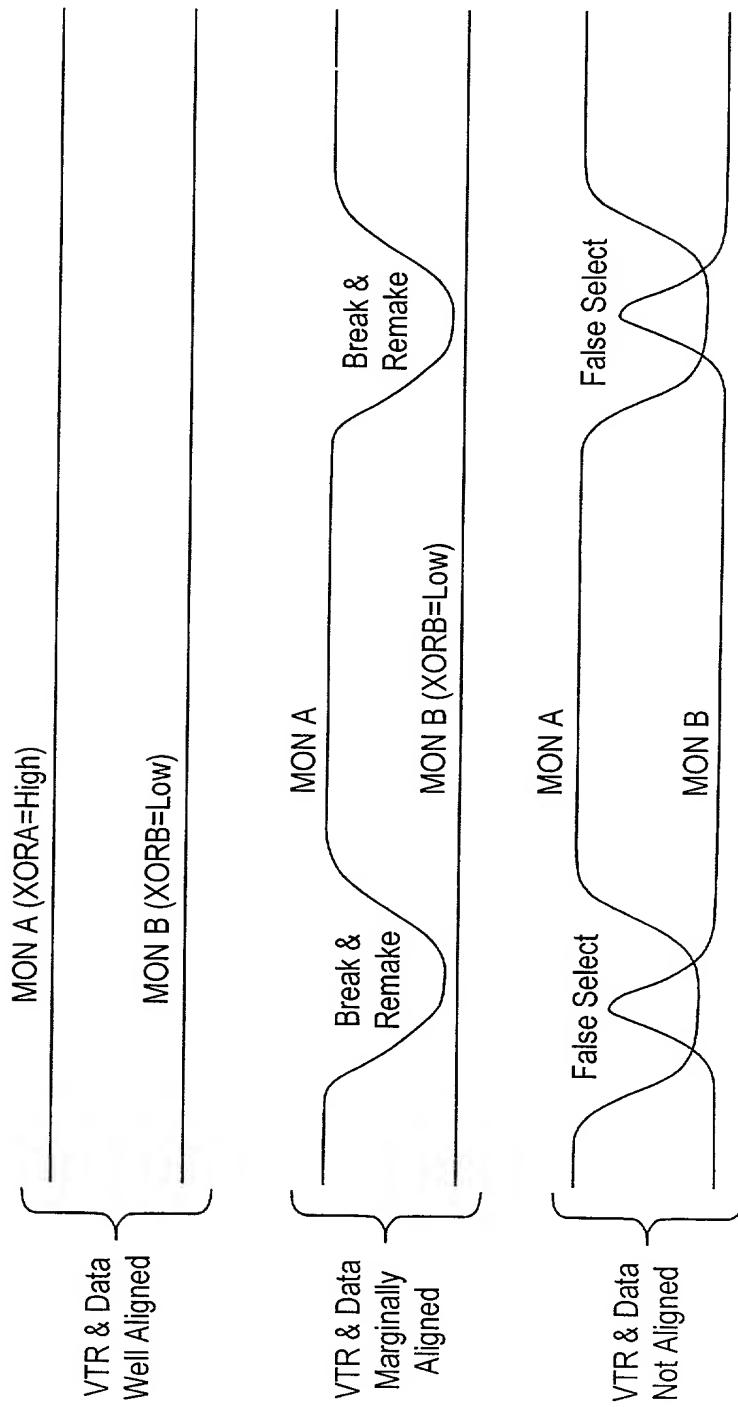


FIG. 8B

METHOD AND SYSTEM FOR DESKEWING  
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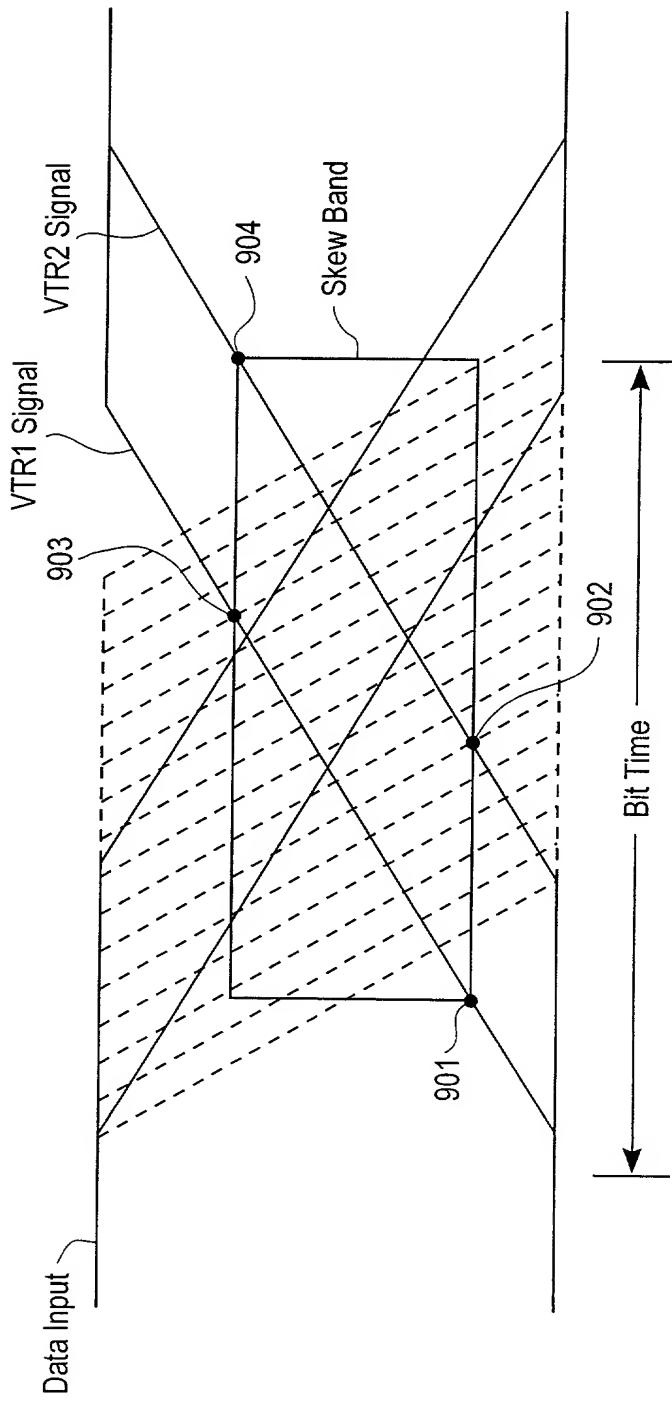


FIG. 9

*METHOD AND SYSTEM FOR DESKEWING  
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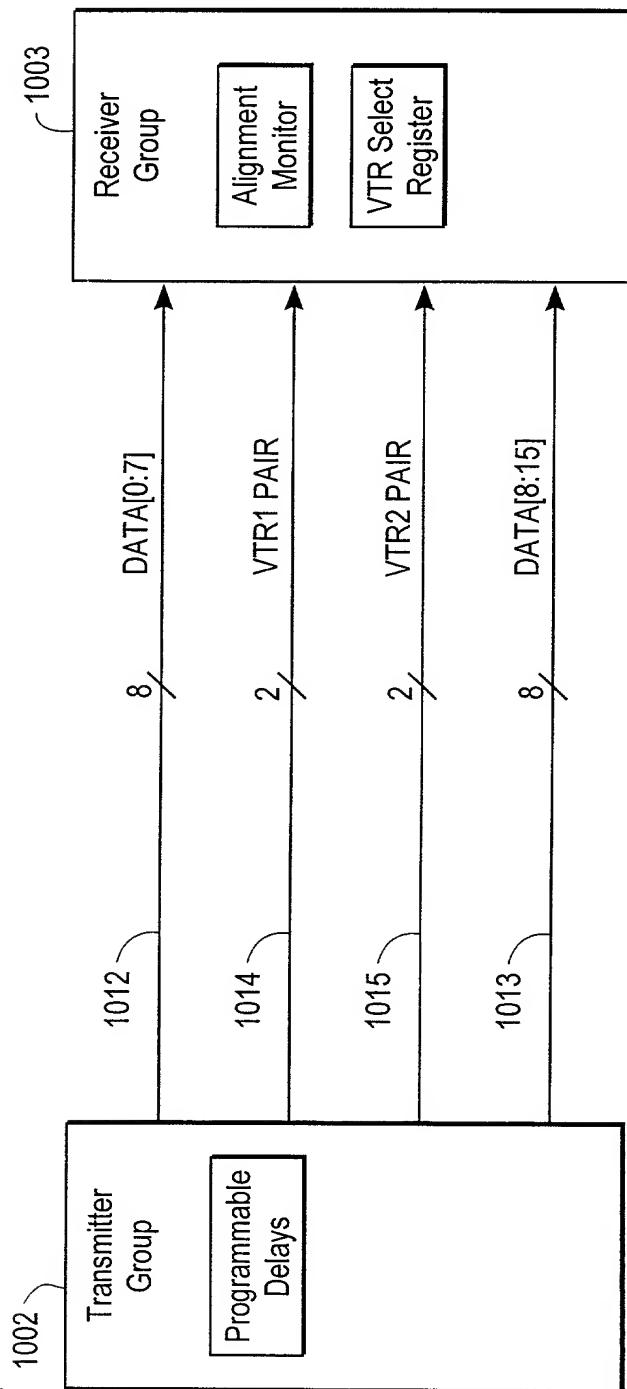
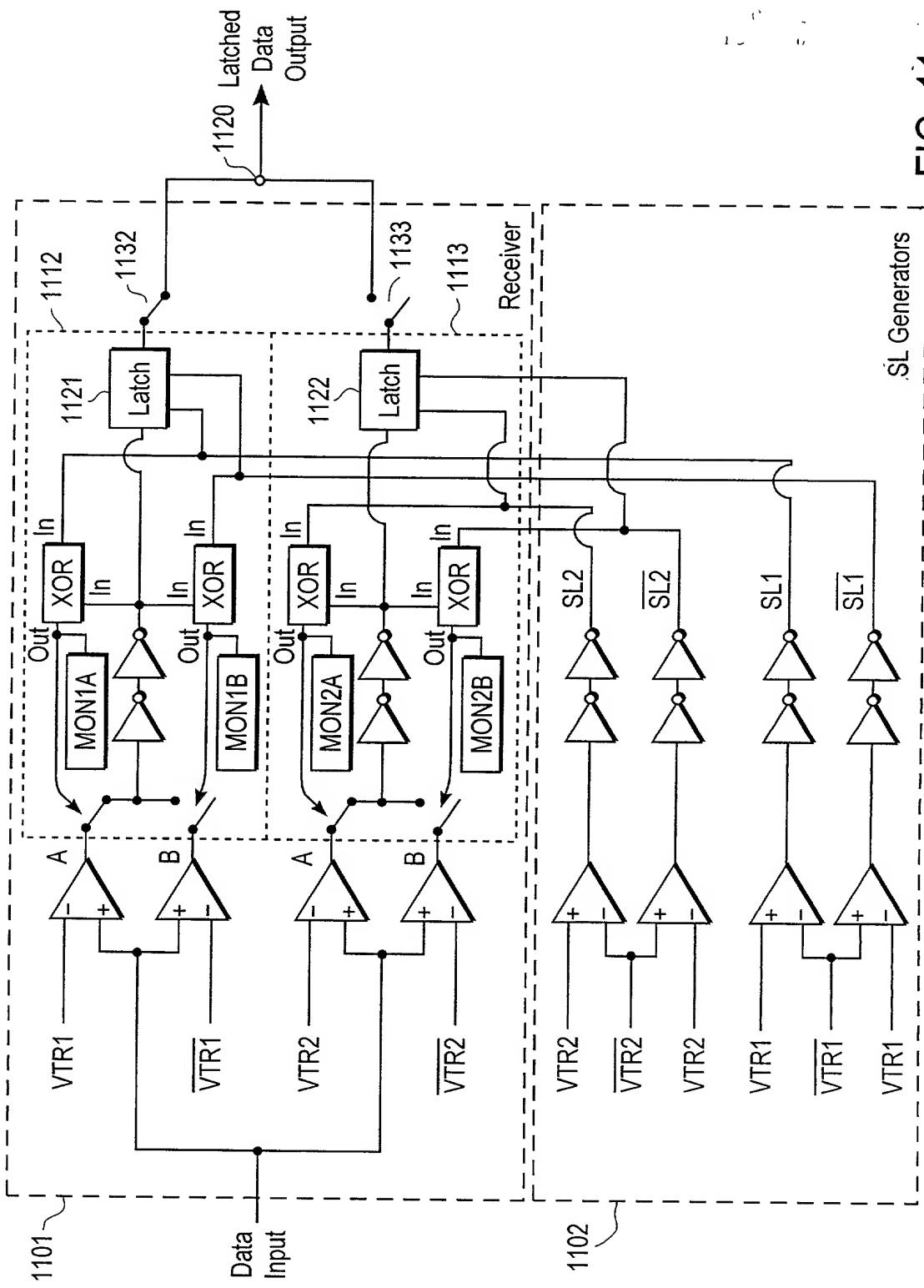


FIG. 10

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**FIG. 11**

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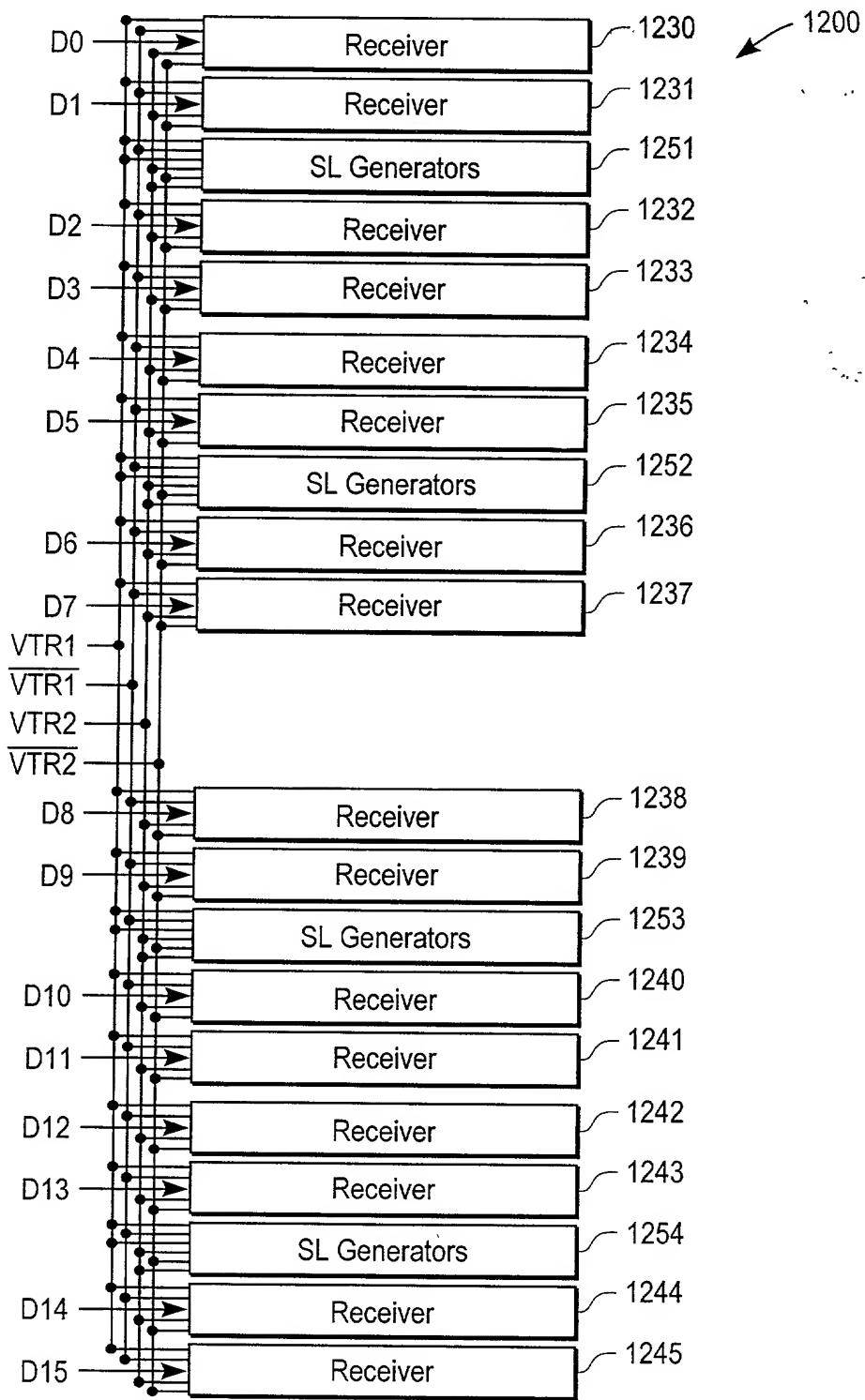
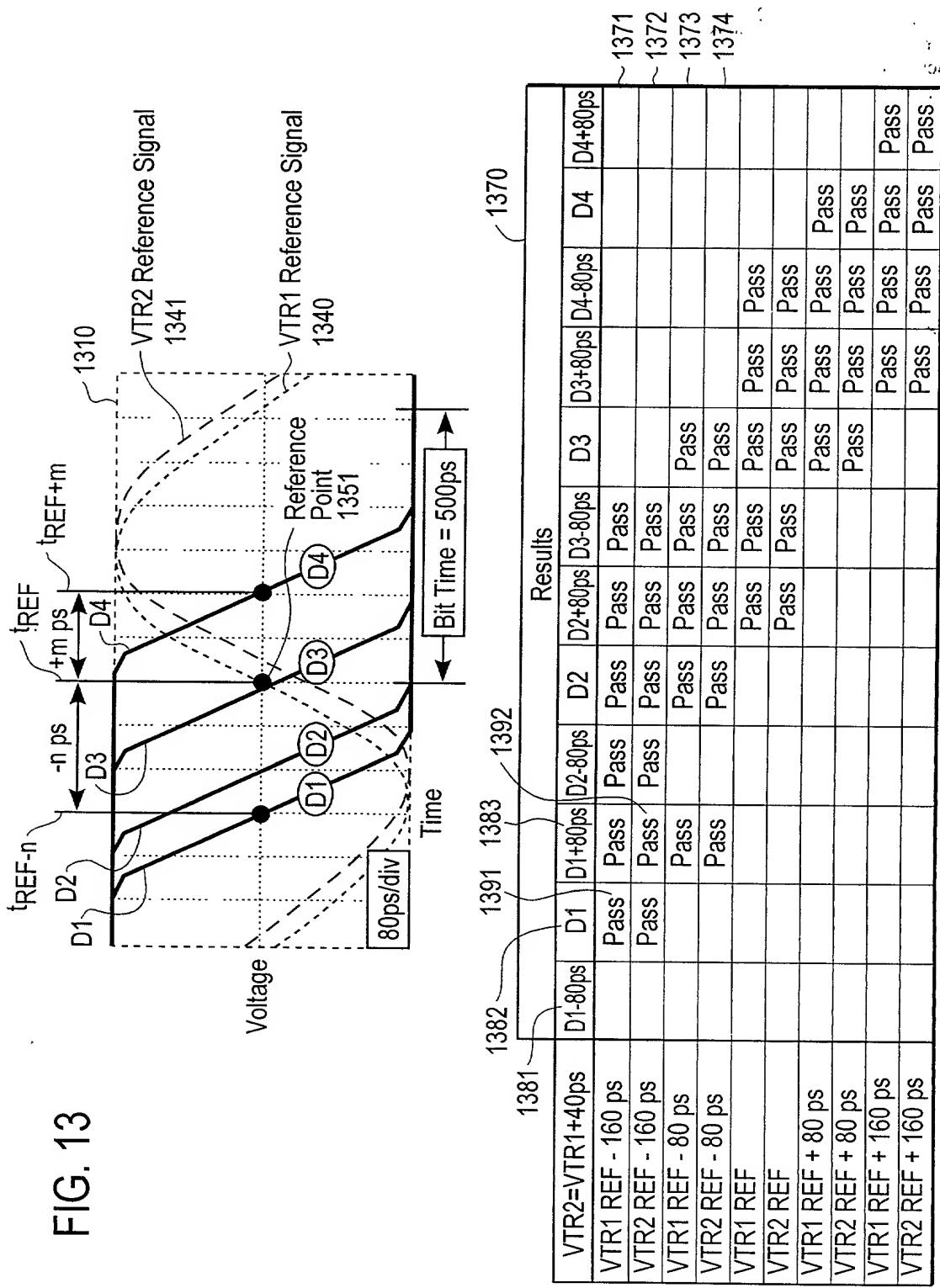


FIG. 12

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**FIG. 13**



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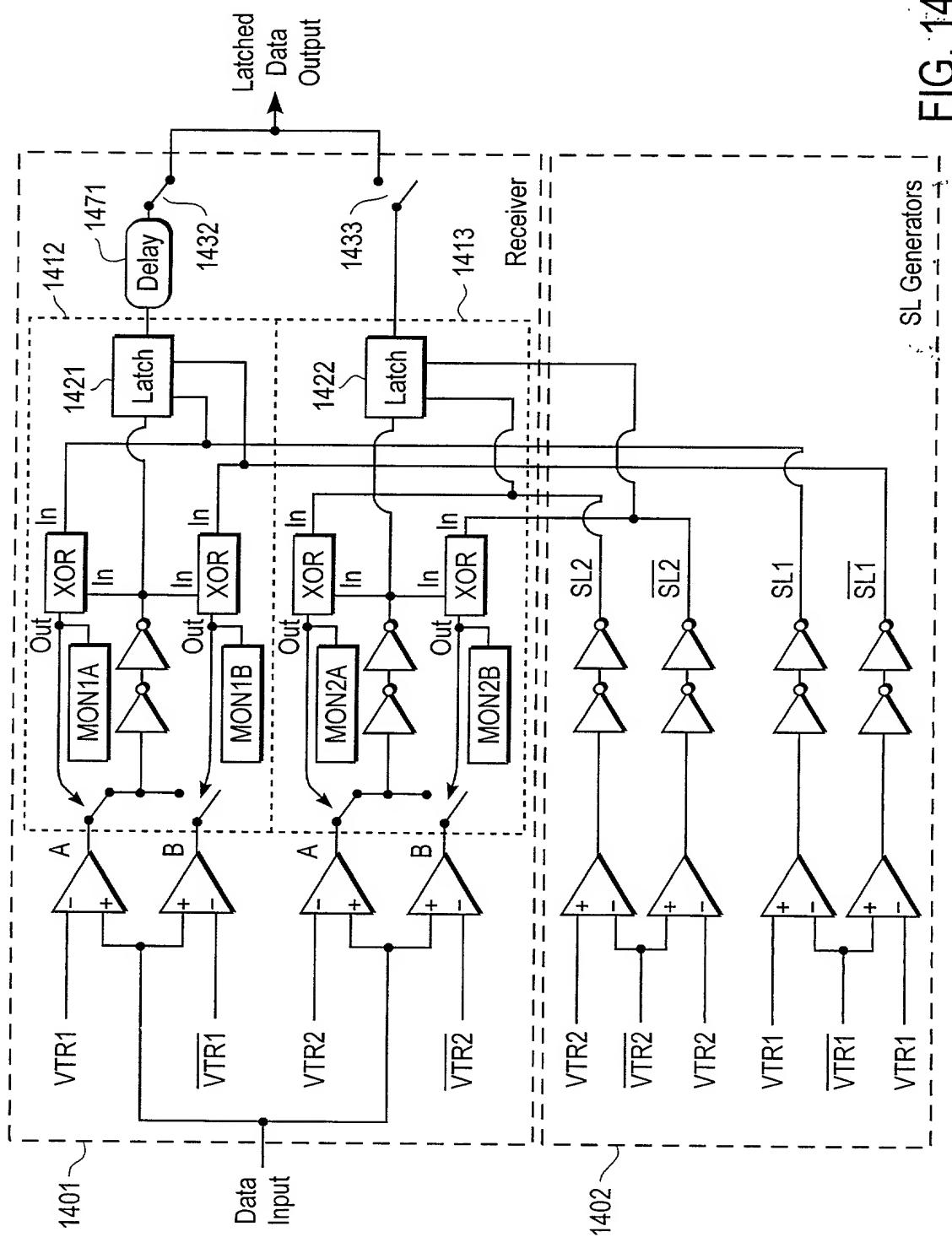


FIG. 14

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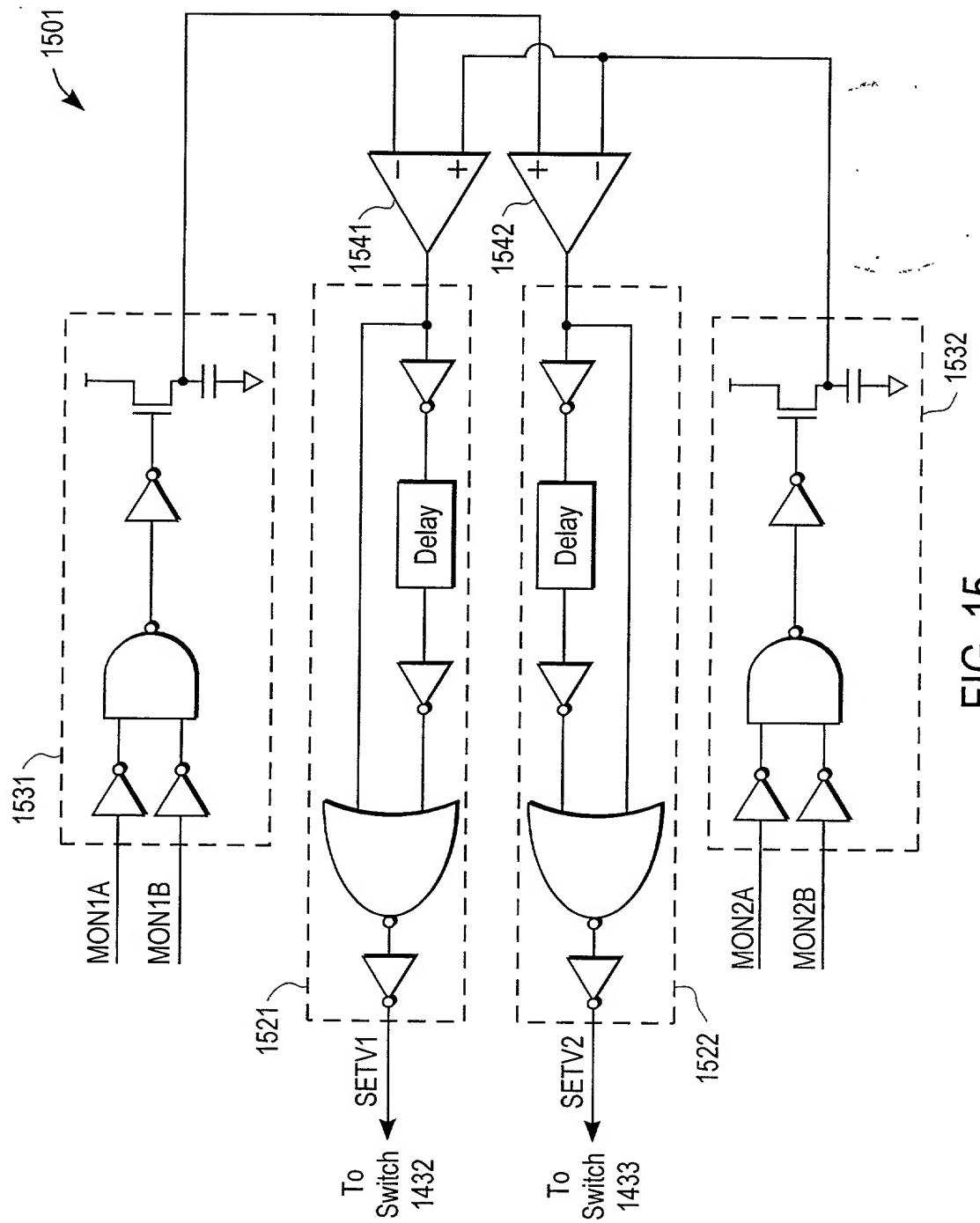


FIG. 15